

What is claimed is:

1. A barrel plating device, comprising:

support members combined together to face each other at a prescribed interval;

hollow support shafts placed to be approximately level with each other, said hollow support shafts being mounted in a piercing form to said support members;

a barrel having a hollow drum part whose opposite ends are closed with end plates, the opposite ends of said barrel being supported to said support shafts in a rotatable condition;

a lead wire having an electrode at a tip end and coated with an insulation layer, said lead wire being inserted into a hollow part of each support shaft in watertight and non-rotatable conditions in such a manner as to allow said lead wire to pierce through the corresponding end plate of said barrel; and

a collar formed with a low friction member, said collar being mounted to each lead wire portion that pierces through said corresponding end plate of said barrel.

2. The barrel plating device according to claim 1, wherein each end plate of said barrel is composed of a body and a boss-shaped member mounted to said body, the hollow part of each support shaft has a large inside diameter part at a portion close to the barrel, each collar has axially extending slots at a portion facing the outside of the barrel, while an inside diameter of a slotted portion of said each collar is sized to be slightly larger than that of the other portion, and a thrust of the slotted portion

of said each color into the large inside diameter part of said each support shaft is made in a non slipped-out condition.

3. The barrel plating device according to claim 2, wherein each bush formed with a low friction member that makes contact with said each collar in a slidable condition is mounted to the boss-shaped member of said each end plate.

4. The barrel plating device according to claim 3, wherein said each bush has axially extending slots at a portion facing the outside of the barrel, while an inside diameter of a slotted portion of said each bush is sized to be slightly larger than that of the other portion and a thrust of said each bush into the insertion hole formed in said each end plate is made in a non slipped-out condition.

5. The barrel plating device according to claim 1, wherein each lead wire is a hard conductive bar that is composed of a horizontal shaft part inserted into the hollow part of the corresponding support shaft and a downwardly bent part being integral with said shaft part and taking a forwardly downward slanting shape within said barrel, said shaft part has a connection part at a distal end, said downwardly bent part has an electrode at a tip end, a lead wire portion excepting said connection part and said electrode is coated with an insulation layer, an energizing member is connected to the connection part of each lead wire, and each joint part between said connection

part and said energizing member is covered for insulation in a watertight condition.

6. The barrel plating device according to claim 5, wherein said barrel is mounted to said each support shaft so as to be inclined to a rotation axis by a prescribed angle in a vertical direction.

7. The barrel plating device according to claim 6, wherein said barrel is mounted to said each support shaft so as to have a prescribed angle to the rotation axis in a horizontal direction.

8. The barrel plating device according to claim 5, wherein the electrodes of said lead wires located within the barrel face each other at a level lower than the rotation axis of the barrel and also are in an inclined position by a prescribed angle in a direction of rotation.